Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of work: Improvements of Asphalting & CC Road To Main & Cross Roads at Kalyan Nagara in Ward no-13 in shettyhalli Sub-Division

Est .Cost Rs. 50.00 Lakhs

Sl. No	Description of Items	Unit	No.	L.	B.	D	Qty.	Rate	Amount
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 141/ Item No. 19.1/ PWD SR 2015-16								
	12th B cross towards shivanand store road Drain	Cum	2	78.00	0.90	0.90	126.36		
	13th B cross towards shivanand store road Drain		2	77.00	0.90	0.90	124.74		
	11th cross towards pipe line Drain		2	65.00	0.90	0.90	105.30		
	12th cross towards pipe line Drain		2	65.00	0.90	0.90	105.30		
							461.70	83.16	**38395.00**
	Basic Rate	77.00							
	Area Weightage @ 8%	6.16							
		83.16							
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of nominal mix M 10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.2 Page No. 12/ Item No. 4.2/ PWD SR 2015-16								
			2	78.00	0.90	0.15	21.06		
			2	77.00	0.90	0.15	20.79		
			2	65.00	0.90	0.15	17.55		
			2	65.00	0.90	0.15	17.55		
							76.95	5139.94	**395518.00**
	Basic Rate	4849.00							
	Area Weightage @ 6%	290.94							
	Total	**5139.94**							
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with with 20mm and down size graded granite metal, coarse aggregate @ 0.69 cum and fine aggregates @ .460cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafairmed -2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,pedastals,retaining walls, staircase, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.5 ,P.13/I.4.11/ PWD SR 2015-16								
	Walls	Cum	2x2	78.00	0.15	0.90	42.12		
	Bed		2	78.00	0.90	0.15	21.06		
			2x2	77.00	0.15	0.90	41.58		
			2	77.00	0.90	0.15	20.79		
			2x2	65.00	0.15	0.90	35.10		

			2	65.00	0.90	0.15	17.55		
			2x2	65.00	0.15	0.90	35.10		
			2	65.00	0.90	0.15	17.55		
	covering		2	78.00	0.90	0.15	21.06		
			2	77.00	0.90	0.15	20.79		
			2	65.00	0.90	0.15	17.55		
			2	65.00	0.90	0.15	17.55		
							307.80	6083.34	1872452.00
		Deduct for openings					30x0.90x0.15=4.05		
	Basic Rate	5739.00					303.75		
	Area Weightage @ 6%	344.34					cum		
	Total	**6083.34**							
4	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3, TMT bars Fe 500. Page No. 17/ Item No. 4.46.2/ PWD SR 2015-16								
		Qtls		307.80	x	60kgs	184.68		
							184.68	6851.31	1265300.00
	Basic Rate	6463.50							
	Area Weightage @ 6%	387.81							
	Total	**6851.31**							
5	KSRB 4-6.9: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walss at any thickness,including attached pilasters,buttresses, plinth and string courses cost of all materials, labour complete as per specification. Specification No. KSRB 4.6.9. exceeding 1m in depth. Page No. 15/ Item No. 4.31/ PWD SR 2015-16								
	for RCC drain Walls	Sqm	2x4	78.00		0.90	561.60		
			2x4	77.00		0.90	554.40		
			2x4	65.00		0.90	468.00		
			2x4	65.00		0.90	468.00		
	covering		2	78.00		0.60	93.60		
			2	77.00		0.60	92.40		
			2	65.00		0.60	78.00		
			2	65.00		0.60	78.00		
							2394.00	301.04	720690.00
	Basic Rate	284.00							
	Area Weightage @ 6%	17.04							
		301.04							
6	Providing & laying reinforeced cement precast slabs of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications.								
	for Covering slabs	Sqm	2	16.00	0.60	0.90	17.28		
			2	17.00	0.60	0.90	18.36		
			2	14.00	0.60	0.90	15.12		
			2	15.00	0.60	0.90	16.20		
	Missed slabs & damaged slabs		1	55.00	0.60	0.90	29.70		
	Approved Rate of Precast slab	**1600**		150			**96.66**	1600	154656.00

7	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 141/ Item No. 19.1/ PWD SR 2015-16								
	1st cross		1	245.00	0.60	0.30	44.10		
		Sqm					**44.10**	48.60	2143.00
	Basic Rate	45.00							
	Area Weightage 8%	3.60							
	Total	**48.60**							
8	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2015-16, P.No.157, I No.20.18)						Cum		
	1st cross		1	245.00	0.60	0.25	36.75		
							36.75	1713.96	62988.03
	Basic Rate	1,587.00							
	Area Weightage 8%	126.96							
	Total	**1713.96**							
9	Providing and applying primer coat with S.S. Bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2015-16, P.No.160, I No.21.6)						Sqm		
	1st cross		1	245.00	0.60		147.00		
							147.00	32.40	4763.00
	Basic Rate	30.00							
	Area Weightage 8%	2.40							
	Total	**32.40**							
10	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous tratement including cost of all materials, labour, HOM of machineries complete as per specificationsEngineer-in-charge of the work (PWDSR 2015-16, P.No.160, I No.21.20) .						Sqm		
	1st cross		1	245.00	5.00		1225.00		
							1225.00	3.24	3969.00
	Basic Rate	3.00							
	Area Weightage 8%	0.24							
		3.24							
11	Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (exlcuding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications Engineer-in-charge of the work (PWDSR 2015-16, P.No.160, I No.21.7)						Sqm		
	1st cross		1	245.00	5.00		1225.00		
							1225.00	15.12	18522.00
	Basic Rate	14.00							
	Area Weightage 8%	1.12							
		15.12							

12	Providing and laying bituminous concrete 30 - 40mm thickness Hot Mix Plant Usig using crushed aggregates of specified grading, premixed with bituminous binder at mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled vibratory and ttandem rollers to achieve the desired compaction as per MoRTH specification clause No. 500.9 complete in all respects with using 40 / 60 TPH Capacity With Sensor Paver Gr-II (30-45 mm) With 6% VG-30 bitumen with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2015-16, P.No.164, I No. 21.22.4)						Cum		
	1st cross		1	245.00	5.00	0.03	36.75		
	Basic Rate	9,149.00					**36.75**	9880.92	363124.00
	Area Weightage 8%	731.92							
		9,880.92							
13	KSRRB 400-2.4: Carriage of mixed materials 10 Kms, For items of Sl.no 4. Rs. 5.20 per cum/km Page no 155/ PWD SR 2015-16								
	Qty.vide item No. 12+ 8	Cum					73.50		
	From 1.0km to 2.0km	1x5.75		5.75					
	From 3.0km to 5.0km	3x5.50		16.50					
	From 5.0km to 10.0km	5x5.20		26.00					
	From 10.00km to 15.0km	5x4.90		24.50					
				72.75					
	(10 kms x 5.20)						73.50	78.57	5775.00
	Basic Rate	72.75							
	Area Weightage 8%	5.82							
		78.57							
14	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 10 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 68.00 (P.133 I.18.57/1) 2015-16						IN.16) L.S — 26480.00		
	Qty Vide Item No=1 + 7	Cum					505.80		
	Qty Limited to						505.80	78.97	39943.00
	Basic Rate (Rs.2.0 x 1.28 x 2 kms)	5.12							
	Loading and Unloading Charges	68.00							
		73.12							
	Area Weightage @ 8%	5.85							
	Total	**78.97**							
15	Add: Quality Control Charges 1%								50000.00
16	Miscellaneous and other unforseen charges — L.S								+26480
								Total	5000000.00
	(Rupees Fifty Lakhs Only)								

ನಂ. CE/D2/TS/01/16-17 Pg 111 ದಿನಾಂಕ : 16-05-2016
ರೂ. 50,00,000/- (Rs. Fifty lakhs only)
ಗಣ ಅಯುಕ್ತರು ಪೂರ್ವ ತಾಂತ್ರಿಕ ಸಲಹೆಗಾರರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

CERTIFICATE

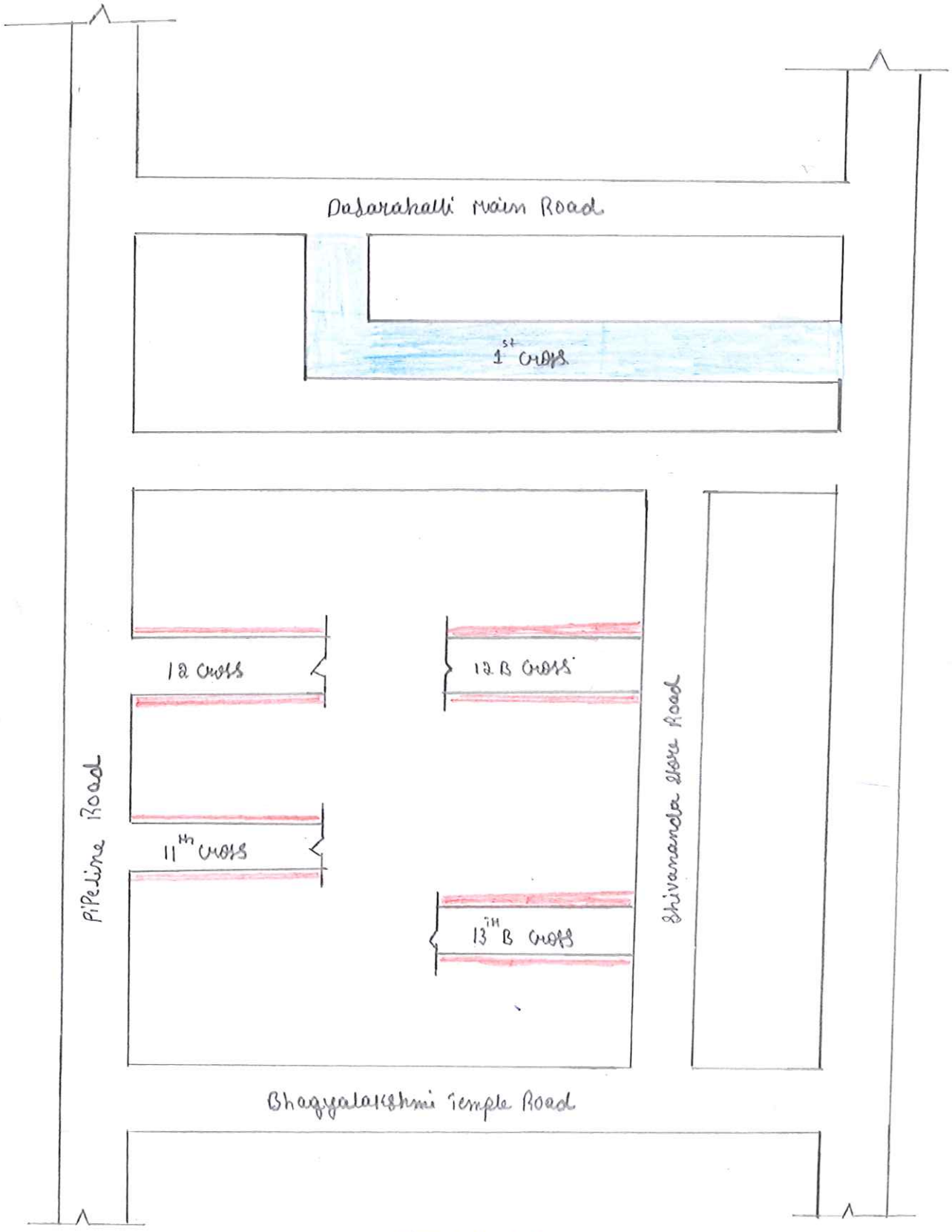
1 The work sport has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2015-16
3 The provisions made in estimate are adequate and essential
4 This area comes under BBMP limits

Asst. Engineer
Ward No-13

Asst.Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

NAME OF WORK :- Improvements of Asphalting and CC Road TO Main and Cross Roads at Kalyan Nagara in Ward NO - 13 in Shettyhalli Sub - Division



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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